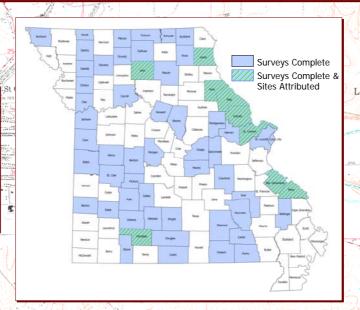
## GIS Capture of Missouri Archaeology Surveys and Sites

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This project represents the usability and necessity of a digital representation of archaeological surveys and sites as an aid to cultural resource management and planning.



## Surveys vs. Sites

A **survey** is the area that was investigated for the presence of archaeological artifacts

A **site** is the location where archaeological artifacts are found

The Total Number of Sites and Surveys Digitized\*:

Total Surveys Captured for the Project: 9,500 polygons Site Polygons Digitized but not Attributed this Period: 6,000 polygons Sites Digitized and Attributed This Period: 2,100 polygons

Total Sites Captured for the Project: 11,000 (2,100 of which are fully attributed)

\*As of June 30, 2009

The data is stored and managed in a geodatabase using a spatial database engine (SDE) on a structured query language (SQL) server. Relationship classes are used to relate (link) tables using a common identifier

Red polygons

are surveys

Purple polygons

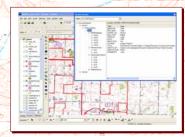
are sites

Example of the Archaeology Geodatabase

## Usability of the Archaeology Geodatabase

In the past, it took many hours to sort through the boxes of data to locate the information needed for a new project. This geodatabase allows that to be accomplished in a fraction of the time.

- •Areas of interest can be zoomed into and existing surveys and sites can be identified quickly to see the associated data
- •Data can be queried and sorted by any related table attributes associated with the polygons
  - Specific year
  - Particular author

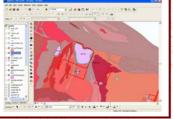


Information associated with surveys and sites can be quickly pulled u

•Ancillary data (geology, roads, soils, etc.) can be incorporated into the geodatabase for more advanced queries

Examples would be:

- ·Sites within a specific county that exists on a specific soil type
- •Surveys within a pre-determined distance of a stream
- Sites that fall along the I-70 corridor



Example of a query; sites found on a specific soil type in St. Charles County



